

ABSTRACT OF THE DISCLOSURE

PROCESS FOR SIMULATION OF THE RESPONSE OF A DETECTOR OF  
RADIATION EMITTED BY RADIOACTIVE OBJECTS AND PROCESS  
FOR INSPECTION OF NUCLEAR FUEL ELEMENTS USING THIS  
SIMULATION

Process for simulation of the response of a detector of radiation emitted by radioactive objects and process for inspection of nuclear fuel elements using this simulation.

5       The objects (16) contain radioelements or mixes of radioelements. Radioactive emission spectra representative of the radioelements or mixes of radioelements are memorized, detection characteristics of the detector (D) and operating characteristics of  
10   the received radiation are determined, the radioelements or mixes of radioelements are chosen and the determined characteristics are processed so as to individually reproduce emitted radiation for selected  
15   radioelements or mixes of radioelements. Application to the inspection of nuclear fuel rods.

FIGURE 1.